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**GIET UNIVERSITY, GUNUPUR – 765022**

M. Sc (First Semester) Examinations, May – 2021

20BTPC102 – BIOCHEMISTRY

(Biotechnology)

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

PART – A**(2 x 10 = 20 Marks)**Q.1. Answer **ALL** questions

- Write about maintenance of blood pH.
- What is Anfinsen's Dogma?
- Define isozymes.
- What is glycoproteins?
- What is nucleosides?
- Give an account on helicase enzyme.
- Write a note on gluconeogenesis.
- Write about Calvin cycle
- What is the role of epinephrine in glycogen metabolism?
- Mention the importance of rapamycin

PART – B**(6 x 5 = 30 Marks)**Answer **ANY FIVE** questions

Marks

- Discuss in detail about Miller and Urey experiment. (6)
- Write short notes on Ramachandran plot. (6)
- Discuss on quantitation and enzyme activity and efficiency. (6)
- Write a note on mono, di and poly saccharides. (6)
- Briefly explain the Ca⁺⁺ signalling pathway. (6)
- Describe pentose phosphate pathway. (6)
- Write in detail about the importance of electron transfer in oxidative phosphorylation (6)

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